

1. Transmitted Data

1-1. Channel Messages

Status	Second	Third	Description	
1011 nnnn (Bn)	0ccc cccc (cc)	0vvv vvvv (vv)	Control Change	*1
1100 nnnn (Cn)	0ppp pppp (pp)		Program Change	*2

Notes *1: Control Change is different from standard way.

For MixerControl; Transmitted when ControlChange is enabled in [SYSTEM]"MIDI."

[!] MIDI MixerControl Messages (Bn ID vv)

ID	message	parameter	value
7	Bn 07 vv	Fader	0-127
8	Bn 08 vv	Pair switch(1-2,3-4,5-6,7-8)	0=Independent, 1=Pair
10	Bn 0A vv	Pan	0-127 (64=center)
12	Bn 0C vv	EffSend1	0-100
13	Bn 0D vv	EffSend2	0-100
14	Bn 0E vv	AuxSend	0-100
16	Bn 10 vv	EQ Low	0-60 (30=Flat)
19	Bn 13 vv	EQ Mid	0-60 (30=Flat)
20	Bn 14 vv	EQ MidFc	0-48
25	Bn 19 vv	EQ Hi	0-60 (30=Flat)
68	Bn 44 vv	Input EQ Low	0-60 (30=Flat)
71	Bn 47 vv	Input EQ Mid	0-60 (30=Flat)
72	Bn 48 vv	Input EQ MidFc	0-48
77	Bn 4D vv	Input EQ Hi	0-60 (30=Flat)
80	Bn 50 vv	SubIn Level	0-100
81	Bn 51 vv	SubIn Balance	0-127 (64=center)
82	Bn 52 vv	SubIn Mono	0=Stereo, 1=Monaural
83	Bn 53 vv	SubIn Mute	0=Mute Off, 1=Mute On
86	Bn 56 vv	MstEff1 RetLev	*1-1 0-100
87	Bn 57 vv	MstEff1 RetBal	*1-1 0-127 (64=center)
88	Bn 58 vv	MstEff2 RetLev	*1-1 0-100
89	Bn 59 vv	MstEff2 RetBal	*1-1 0-127 (64=center)
94	Bn 5E vv	Pair control(Eq/Send/Aux/Pan)*1-1	b7-4:--- b3: Pan (0=Pair Off, 1=Pair On) b2: Eq (0=Pair Off, 1=Pair On) b1: Send (0=Pair Off, 1=Pair On) b0: Aux (0=Pair Off, 1=Pair On)
95	Bn 5F vv	Master fader	*1-1 0-127

Notes *1-1: Common of all channels.

Not recognized but by Global Channel.

*2: Transmitted when ProgramChange is enabled in [SYSTEM]"MIDI."

Transmitted when ...

"SceneNumber" is changed in the [SCENE]"ReadDel"tab page.

A scene is registered by pressing the [STORE] key and [SCENE] key.

"SceneRead" is "On" and the scene changed during playback/recording.

Program Change #000-099 correspond to Scene Number 001-100.

1-2. Universal System Exclusive Messages

1-2-1. MIDI Machine Control *1

Status	Description
1111 0000 (F0)	Universal System Exclusive
0111 1111 (7F)	Real Time Header
00aa aaaa (aa)	DeviceID (0-127)
0000 0110 (06)	Machine Control Command(mcc)sub-ID
0bbb bbbb (bb)	Command String *2

	:		
	:		
	1111 0111 (F7)		End-of-Exclusive
+-----+			

Notes *1: Transmitted when "MMC Mode:Transmit" is selected in [SYSTEM]"MMC."
Not transmitted in [SCRUB],[Wave],[Song]"PrgPlay",[Input]"Tuner",
and in operation at [SYSTEM]"DiskUtil"tab page.

[!] MMC Transmitted Messages -----+			
	STOP	[01]	F0 7F dv 06 01 F7 ;dv(DeviceID) = 00-7F
	PLAY	[02]	F0 7F dv 06 02 F7
	DEFFERD PLAY	[03]	F0 7F dv 06 03 F7
	RECORD STROBE	[06]	F0 7F dv 06 06 F7
	RECORD EXIT	[07]	F0 7F dv 06 07 F7
	LOCATE	[44]	F0 7F dv 06 44 06 01 hr mn sc fr ff F7
			;hr : hour(0-23), type *1-1
			;mn : minute(0-59)
			;sc : second(0-59)
			;fr : frame(0-29)
+-----+			

Notes *1-1: hr = 0yyyyzzzz
zzzzz = hour(0-23),
yy = type(Only 11 = MIDI Time Code 30 non-drop frame, is enabled.)

*2: <Command String> ::= <Command> | <Command String><Command>
Number of bytes in a Command String field must not exceed 48.

1-2-2.MTC Full Messages *1

+-----+			
	Status		Second
			Third
			Description
+-----+			
	1111 0000 (F0)		0111 1111 (7F) dv 01 01 hr mn sc fr F7 *2 MTC Full Message
+-----+			

Notes *1: When "MMC Mode:Transmit" is selected, locate message is transmitted by MMC Message.
When "MMC Mode:Off" and "MIDISync Mode: MTCMstr" are selected, locate message
is transmitted by MTC Full Message.

*2: dv : DeviceID = 7F
hr = 0yyyyzzzz : zzzzz = hour(0-23),
yy = type (Only 11 = MIDI Time Code 30 non-drop frame, is enabled.)
mn : minute(0-59)
sc : second(0-59)
fr : frame(0-29)

1-3.System Common Messages

+-----+			
	Status		Second
			Third
			Description
+-----+			
	1111 0001 (F1)		0000 xxxx (0x) MTC Quarter Frame (fr(L)) *1
	1111 0001 (F1)		0001 xxxx (1x) MTC Quarter Frame (fr(H)) *1
	1111 0001 (F1)		0010 xxxx (2x) MTC Quarter Frame (sc(L)) *1
	1111 0001 (F1)		0011 xxxx (3x) MTC Quarter Frame (sc(H)) *1
	1111 0001 (F1)		0100 xxxx (4x) MTC Quarter Frame (mn(L)) *1
	1111 0001 (F1)		0101 xxxx (5x) MTC Quarter Frame (mn(H)) *1
	1111 0001 (F1)		0110 xxxx (6x) MTC Quarter Frame (hr(L)) *1
	1111 0001 (F1)		0111 xxxx (7x) MTC Quarter Frame (hr(H)) *1
	1111 0010 (F2)		0sss ssss (ss) 0ttt tttt (tt) Song Position Pointer *2
+-----+			

Notes *1: Only MTC30NDF(MIDI Time Code 30 non-drop frame) is transmitted
when "MIDISync Mode:MTC Mstr" is selected in [SYSTEM]"Sync."
*2: Transmitted when "MIDISync Mode:ClockMstr" is selected in [SYSTEM]"Sync."

1-4.System Real time Messages *1

+-----+	
	Status
	Description

1111 1000 (F8)	Timing Clock	
1111 1010 (FA)	Start	
1111 1011 (FB)	Continue	
1111 1100 (FC)	Stop	

Notes *1: Transmitted when "MIDISync Mode:ClockMstr" is selected in [SYSTEM]"Sync."

2.Recognized Receive Data

Not received in [SCRUB],[Wave],[Song]"PrgPlay",[Input]"Tuner", and in operation at [SYSTEM]"DiskUtil" tab page.

2-1.Channel Messages

Status	Second	Third	Description	

1001 nnnn (9n)	0kkk kkkk (kk)	---- ---- *2	Note On (note)	*1
1001 nnnn (9n)	---- ---- *2	0vvv vvvv (vv)	Note On (velocity)	*1
1011 nnnn (Bn)	0ccc cccc (cc)	0vvv vvvv (vv)	Control Change (0-119)	*1,*4
1100 nnnn (Cn)	0ppp pppp (pp)		Program Change	*3
1101 nnnn (Dn)	0vvv vvvv (vv)		Channel Pressure (After Touch)	*1
1110 nnnn (En)	0hhh hhhh (hh)	---- ---- *2	Bender Change	*1

Notes *1: For EffectControl; Received when selected in [SYSTEM]"Control" and insertion effect that will be controlled is selected in "CtrlChg:Ass."

*2: Not recognized at all.

*3: Received when ProgramChange is enabled in [SYSTEM]"MIDI" and when "SceneRead" is "Off."
Program Change #000-099 correspond to Scene Number 001-100.

*4: Control Change is different from standard way.
For MixerControl; Received when ControlChange is enabled in [SYSTEM]"MIDI."

[!] MIDI MixerControl Messages (Bn ID vv)

ID	message	parameter	value	

7	Bn 07 vv	Fader	0-127	
8	Bn 08 vv	Pair switch(1-2,3-4,5-6,7-8)	0=Independent, 1=Pair	
10	Bn 0A vv	Pan	0-127 (64=center)	
12	Bn 0C vv	EffSend1	0-100	
13	Bn 0D vv	EffSend2	0-100	
14	Bn 0E vv	AuxSend	0-100	
16	Bn 10 vv	EQ Low	0-60 (30=Flat)	
19	Bn 13 vv	EQ Mid	0-60 (30=Flat)	
20	Bn 14 vv	EQ MidFc	0-48	
25	Bn 19 vv	EQ Hi	0-60 (30=Flat)	
68	Bn 44 vv	Input EQ Low	0-60 (30=Flat)	
71	Bn 47 vv	Input EQ Mid	0-60 (30=Flat)	
72	Bn 48 vv	Input EQ MidFc	0-48	
77	Bn 4D vv	Input EQ Hi	0-60 (30=Flat)	
80	Bn 50 vv	SubIn Level	0-100	
81	Bn 51 vv	SubIn Balance	0-127 (64=center)	
82	Bn 52 vv	SubIn Mono	0=Stereo, 1=Monaural	
83	Bn 53 vv	SubIn Mute	0=Mute Off, 1=Mute On	
86	Bn 56 vv	MstEff1 RetLev	*4-1 0-100	
87	Bn 57 vv	MstEff1 RetBal	*4-1 0-127 (64=center)	
88	Bn 58 vv	MstEff2 RetLev	*4-1 0-100	
89	Bn 59 vv	MstEff2 RetBal	*4-1 0-127 (64=center)	
94	Bn 5E vv	Pair control(Eq/Send/Aux/Pan)*4-1	b7-4:---	
			b3: Pan (0=Pair Off, 1=Pair On)	
			b2: Eq (0=Pair Off, 1=Pair On)	
			b1: Send (0=Pair Off, 1=Pair On)	

				b0: Aux (0=Pair Off, 1=Pair On)
95	Bn 5F vv	Master fader	*4-1	0-127

Notes *4-1: Common of all channels.
Not recognized but by Global Channel.

2-2.Universal System Exclusive Messages

2-2-1.MIDI Machine Control *1

Status	Description
1111 0000 (F0)	Universal System Exclusive
0111 1111 (7F)	Real Time Header
00aa aaaa (aa)	DeviceID (0-127)
0000 0110 (06)	Machine Control Command(mcc)sub-ID
0bbb bbbb (bb)	Command String *2
:	
:	
1111 0111 (F7)	End-of-Exclusive

Notes *1: Received when "MMC Mode:Receive" is selected in [SYSTEM]"MMC."

*2: <Command String> ::= <Command> | <Command String><Command>

Number of bytes in a Command String field must not exceed 48.

2-2-2.MTC Full Messages *1

Status	Second	Third	Description
1111 0000 (F0)	0111 1111 (7F)	dv 01 01 hr mn sc fr F7 *2	MTC Full Message

Notes *1: MTC Full Message is enabled when "MMC Mode:Off" and "MIDI SyncMode:MTCslave" are selected.

*2: dv : DeviceID = 7F

hr = 0yyzzzzz : zzzzzz = hour(0-23)

yy = type (Only 11 = MIDI Time Code 30 non-drop frame, is enabled.)

mn : minute(0-59)

sc : second(0-59)

fr : frame(0-29)

2-3.System Common Messages *1

Status	Second	Description
1111 0001 (F1)	0000 xxxx (0x)	MTC Quarter Frame (fr(L))
1111 0001 (F1)	0001 xxxx (1x)	MTC Quarter Frame (fr(H))
1111 0001 (F1)	0010 xxxx (2x)	MTC Quarter Frame (sc(L))
1111 0001 (F1)	0011 xxxx (3x)	MTC Quarter Frame (sc(H))
1111 0001 (F1)	0100 xxxx (4x)	MTC Quarter Frame (mn(L))
1111 0001 (F1)	0101 xxxx (5x)	MTC Quarter Frame (mn(H))
1111 0001 (F1)	0110 xxxx (6x)	MTC Quarter Frame (hr(L))
1111 0001 (F1)	0111 xxxx (7x)	MTC Quarter Frame (hr(H))

Notes *1: Only MTC30NDF(MIDI Time Code 30 non-drop frame) is received when "MIDISync Mode:MTC Slave" is selected in [SYSTEM]"Sync."

```
[!] MTC RecvErrorLevel(in [SYSTEM] "Sync") -----+
|   Treated as synchronization error when ...   |
|   Level 0 : No Check.                         |
|   1 : more than 1000msec out.                 |
|   2 : more than 500msec out.                 |
|   3 : more than 300msec out.                 |
|   4 : more than 100msec out.                 |
|   5 : more than 50msec out.                  |
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	6 : more than 40msec out.	
	7 : more than 30msec out.	
	8 : more than 20msec out.	
	9 : more than 10msec out.	
+-----+		

2-4. System Real time Messages *1

+-----+		
	Status	Description
+-----+		
	1111 1000 (F8)	Timing Clock
	1111 1010 (FA)	Start
	1111 1100 (FC)	Stop
+-----+		

Notes *1: Received when "SelectRecTempoTrackType:MIDIClock" is selected in [TEMPO/RHYTHM]"TmpTrk" to record the tempo track.

3. MIDI Machine Control Commands

Communication between the D1200(Controlled Device) and a Controller is in the "open loop" mode only. The D1200 accepts commands from MIDI IN port but does not send any response to MIDI OUT.

Available Commands

(MCS=Motion Control State, MCP=Motion Control Process)

+-----+		
	HEX	Command
+-----+		
	01	STOP(MCS)
	03	DEFFERD PLAY(MCS)
	04	FAST FORWARD(MCS)
	05	REWIND(MCS)
	06	RECORD STROBE
	07	RECORD EXIT
	08	RECORD PAUSE
	09	PAUSE(MCS)
	0D	MMC RESET
	40	WRITE
	44	LOCATE(MCP)
	4C	MOVE
+-----+		

Available Information Fields

+-----+		
	HEX	Information Field Name
+-----+		
	01	SELECTED TIME CODE
	08	GP0/LOCATE POINT
+-----+		

D1200 Signature (The D1200 never transmits this message.)

```
01 00 00 00
0C
7B 47 00 00 00 00 00 00 00
11 20
02
02 02
```